



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

DATE: JUL 03 2018

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Metal Management Midwest Inc. d/b/a Sims Metal Management, Chicago, Illinois

FROM: Scott Connolly, Environmental Engineer
AECAB (IL/IN)

THRU: Nathan Frank, Section Chief
AECAB (IL/IN)

TO: File

BASIC INFORMATION

Facility Name: Metal Management Midwest Inc. d/b/a Sims Metal Management

Facility Location: 2500 South Paulina Street, Chicago, Illinois

Dates of Inspection: May 25, 2018 and June 26, 2018

EPA Inspector:

1. Scott Connolly, Environmental Engineer

Other Attendees

1. Debbie Hays, Central Region SHEC Director, Sims Metal Management
2. George Malamis, Regional Ferrous Manager, Sims Metal Management
3. Sam Flores, Plant Supervisor, Sims Metal Management

Purpose of Inspection: To determine if fugitive particulate matter emissions were still occurring

Facility Type: Metal Shredding and Recycling Facility.

Arrival Time: 1:50 pm

Departure Time: 2:30 pm

Inspection Type:

- ☐ Unannounced Inspection
- ☒ Announced Inspection

OPENING CONFERENCE

- ☒ Credentials Presented
- ☒ CBI warning to facility provided

The following information was obtained verbally from Debbie Hays unless otherwise noted.

Process Description:

The facility processes post-consumer metals for recycling in steel mills and other foundries. Scrap metal arrives at the facility mostly by truck, but sometimes by barge. Cars, sheet iron, appliances and sheet fencing are normally the main items processed in the shredder. Cranes are used to load scrap metal onto the conveyer that feeds the hammer mill shredder. The shredder breaks apart the metal into small pieces that can be easily transported. The shredder is equipped with a water spray system that increases the spray depending on the power sent to the motor. Shredded scrap exits the shredder unit and is transferred on two open conveyors to the magnetic separator. The separator removes ferrous from non-ferrous materials and sends each to separate bins for storage. The Sims facility operates a Z-box air cyclone system that sucks lighter materials and dust out of the scrap to maintain the consistency of the scrap. This system uses recirculating air which results in no emission point

TOUR INFORMATION

EPA toured the facility: Yes

Data Collected and Observations:

The metal separation plant on the south west side of the facility appeared to be newly installed and nearly completed. Facility staff stated that it was not yet operational. The two conveyors immediately downstream of the shredder and undermill oscillator, prior to the roll magnets, had newly installed ribbing for new conveyor covers on them. Tarps attached to the new ribbing were being used as temporary covers. The conveyors had been previously uncovered. The hammer mill shredder had new rubber curtains installed, in-line, horizontally from the feed roller to the top of the shredder box. The sides of the shredder were still open to the atmosphere. Steel plates were installed over a gap in shredder box over the undermill oscillator. Gases were observed exiting the top shredder. Upon my arrival at the facility on May 25th the roads and yard were dry and dusty, but they were watered by the water truck, by the time I left.

Photos and/or Videos: were taken during the inspection.

A photo log is contained in Appendix A.

Field Measurements: were not taken during this inspection.


CLOSING CONFERENCE

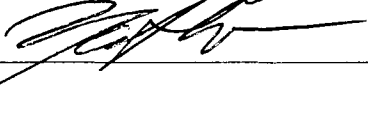
Requested documents:

- Production Records from May 2017 until May 2018
- Explosion Records from May 2017 until May 2018
- Most Recent Fugitive Dust Plan Revision
- Construction Permit Application for Metals Separation Plant

Concerns: I was not aware that a construction permit had been issued for the metals separation plant and facility staff stated that it had not been issued, but it appeared to have been installed already. Gases were observed exiting the top of the shredder and the new rubber flaps did not appear to prevent all fugitive emissions.

SIGNATURES

Report Author:  Date: 7/2/2018

Section Chief:  Date: 7/3/18

Facility Name: Metal Management Midwest Inc. d/b/a Sims Metal Management
Facility Location: 2500 South Paulina Street, Chicago, Illinois
Date of Inspection: May 25, 2018

APPENDICES AND ATTACHMENTS

1. Appendix A: Digital Image Log

Facility Name: Metal Management Midwest Inc. d/b/a Sims Metal Management

Facility Location: 2500 South Paulina Street, Chicago, Illinois

Date of Inspection: May 25, 2018

APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Scott Connolly	2. Dates of Inspection: May 25, 2018 and June 26, 2018
3. Company/Facility Name: Metal Management Midwest Inc. d/b/a Sims Metal Management	4. Street Address, City, State: 2500 South Paulina Street, Chicago, Illinois
5. Number of Images: 9	6. Archival Record Location: https://usepa.sharepoint.com/:f:/s/R5/ARD/AECAB/ILIN/EtANoFWOiUNMoHla0wEiLkoBvIMRDO0eoEZx6ypHjRaiyw

Image Number	File Name	Date and Time (incl. time zone and DST)	Latitude and Longitude	Description of Image
1	RIMG0019.JPG	5/25/2018 13:55	Data Not Available	Top of the Shredder
2	RIMG0020.JPG	5/25/2018 13:55	41.848008, -87.668283	Top of the shredder
3	RIMG0021.JPG	5/25/2018 13:56	41.847982, -87.668303	Top of the shredder
4	RIMG0022.JPG	5/25/2018 13:57	41.847982, -87.668303	Top of the shredder
5	RIMG0023.JPG	5/25/2018 14:02	41.847777, -87.668198	Metal Separation Plant
6	P6260001.JPG	6/26/2018 16:16	Data Not Available	Top of Shredder and rubber flaps from outside pulpit
7	P6260002.JPG	6/26/2018 16:17	Data Not Available	Feed roller at the top of the shredder
8	P6260003.JPG	6/26/2018 16:17	Data Not Available	Recently installed flaps above mill
9	P6260004.JPG	6/26/2018 16:20	Data Not Available	Overview of mill from top of pulpit